FAA FORM 8130-6, APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE

Form Approved O.M.B. No. 2120-0018

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U.S. Dep of Trans Federal Adminis	oortation Aviation			U.S.	PLICATION AIRWOR	ТН	IN			only. Subi	mit origi ise atta	nal	only to	an authoriz	ed FAA	Repre	esen	ntative. If ad	are for FAA use ditional space is tions II, VI and
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Administration

Engine & Propeller Directorate

Manufacturing Inspection District Office -42 12 New England Executive Park Burlington, MA 01803-5299 Tel: (781) 238 - 7129 Fax: (781) 238 - 7898

EXPERIMENTAL OPERATING LIMITATIONS RESEARCH AND DEVELOPMENT Supplement to FAA Form 8130-7 dated 12/01/2008

BUILDER: Terrafugia Inc.

SERIAL NUMBER: D0001

MODEL: Transition

REGISTRATION NUMBER: N302TF

These limitations are a part of **FAA Form 8130-7 Special Airworthiness Certificate**, issue date of 12/01/2008 and must be kept in the aircraft at all times. This aircraft is governed by the operating rules contained in the Federal Aviation Regulations, 14 CFR 91, and is subject to the following operating limitations listed below.

- (1) No person may operate this aircraft unless Form 8130-7 is displayed at the cabin or cockpit entrance and visible to passengers or flight-crew members.
- (2) No person may operate this aircraft for other than the purpose of research and development to accomplish the flight operation outlined in the program letter dated 11/12/2008, which describes compliance with § 21.193(d), and has been made available to the pilot in command of the aircraft. In addition, this aircraft must be operated in accordance with applicable air traffic and general operating rules of part 91, and all additional limitations herein prescribed under the provisions of § 91.319(e).
- (3) Not issued
- (4) All flights of this aircraft must be conducted within the geographic areas indicated on the attached charts:

Three locations have been identified for the execution of Terrafugia's flight test program:

Griffiss (KRME), Rome, NY

(Attachment 1)

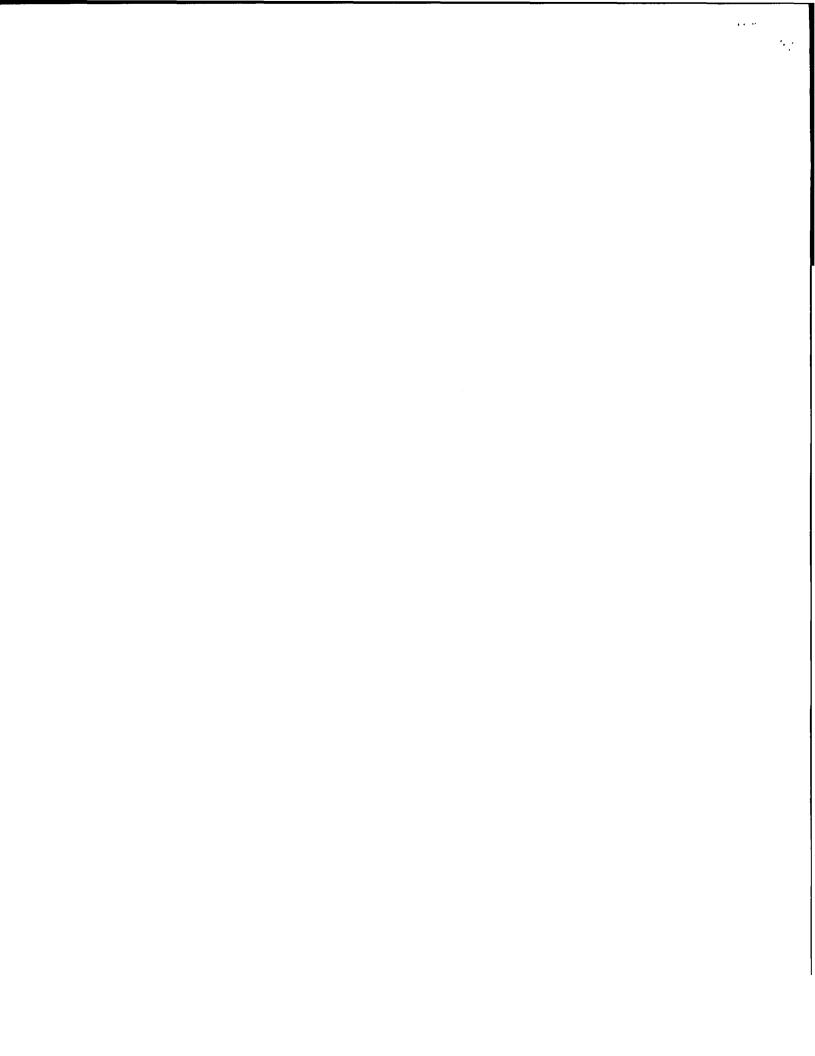
Plattsburgh (KPBG), Plattsburgh, NY (Attachment 2)

Orange (KORE), Orange, MA

(Attachment 3)

Phase I flights will occur at either KRME or KPBG, and phase II flights will be from KORE. All flights will remain within the geographic areas as defined on the attached charts and will avoid all densely populated areas also defined on the attached charts. Check Notice to Airmen (NOTAMS) and Temporary Flight Restrictions (TFR), or other restrictions prior to each flight.

- (5) Not issued
- (6) When changing between operating purposes of a multi-purpose certificate, the operator must determine that the aircraft is in a condition for safe operation and appropriate for the purpose intended. A record entry will be made by an appropriately rated person to document that finding in the aircraft logbook.
- (7) This aircraft must not be operated unless it is inspected and maintained in accordance with appropriate military technical publications and/or manufacturer's recommendations. The owner/operator must select, establish, identify, and use an inspection program as set forth in § 91.409. This inspection program must be recorded in the aircraft maintenance records.



- (8) The pilot in command of this aircraft must hold an appropriate category/class rating. If required for the type of aircraft to be flown, the pilot in command also must hold either an appropriate type rating or a letter of authorization issued by an FAA Flight Standards Operations Inspector.
- (9) This aircraft is to be operated under VFR, day only.
- (10) Not issued
- (11) Not issued
- (12) No person may operate this aircraft for carrying persons or property for compensation or hire.
- (13) No person may be carried in this aircraft during flight unless that person is essential to the purpose of the flight.
- (14) Not issued
- (15) The pilot in command of this aircraft must advise each passenger of the experimental nature of this aircraft, and explain that it does not meet the certification requirements of a standard certificated aircraft.
- (16) This aircraft must contain the placards, markings, etc., (or other operating instructions developed for an STC modification) required by § 91.9.
- (17) This aircraft is prohibited from aerobatic flight, that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, an abnormal attitude, or abnormal acceleration not necessary for normal flight.
- (18) Not issued
- (19) Not issued
- (20) This aircraft must not be used for glider towing, banner towing, or intentional parachute jumping.
- (21) No person must operate this aircraft unless within the preceding 12 calendar months it has had a condition inspection performed in accordance with appendix D to part 43, or other FAA-approved programs, and was found to be in a condition for safe operation. This inspection will be recorded in the aircraft maintenance records.
- (22) Only FAA-certificated mechanics with appropriate ratings as authorized by § 43.3 may perform inspections required by these operating limitations.
- (23) Inspections must be recorded in the aircraft maintenance records showing the following, or a similarly worded, statement: "I certify that this aircraft has been inspected on [insert date] in accordance with the scope and detail of appendix D to part 43, or other FAA-approved programs, and was found to be in a condition for safe operation." The entry will include the aircraft's total time-in-service, and the name, signature, certificate number, and type of certificate held by the person performing the inspection.

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- (24) If aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the aircraft records.
- (25) This aircraft must not be operated unless it is maintained and inspected in accordance with the requirements of part 43.
- (26) This aircraft must display the word "EXPERIMENTAL" in accordance with § 45.23(b).
- (27) The pilot in command of this aircraft must notify air traffic control of the experimental nature of this aircraft when operating into or out of airports with operating control towers. The pilot in command must plan routing that will avoid densely populated areas and congested airways when operating VFR.
- (28) This aircraft does not meet the requirements of the applicable, comprehensive, and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation. The owner/operator of this aircraft must obtain written permission from another country's CAA prior to operating this aircraft in or over that country. That written permission must be carried aboard the aircraft together with the U.S. airworthiness certificate and, upon request, be made available to an FAA inspector or the CAA in the country of operation.
- (29) Aircraft instruments and equipment installed and used under § 91.205 must be inspected and maintained in accordance with the requirements of parts 43 and 91. Any maintenance or inspection of this equipment must be recorded in the aircraft maintenance records.
- (30) Application must be made to the geographically responsible FSDO or MIDO [ANE-MIDO-42] for any revision to these operating limitations.
- (31) Section 47.45 requires that the FAA Aircraft Registry must be notified within 30 days of any change in the aircraft registrant's address. Such notification is to be made by submitting Form 8050-1 to AFS-750 in Oklahoma City, Oklahoma.

Scott F. Lunn

Date: 12/01/2008

Aviation Safety Inspector

ANE-MIDO-42

Samuel Schweighaft

Date: 12/01/2008

Signature constitutes acknowledgement & understanding

of these limitations.

Note: These Experimental Operating Limitations (Research and Development) expire in one year on 12/01/2009

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To whom it may concern:

For the past two years, Terrafugia has had a full time team dedicated to the development of the Transition®, a novel approach to a "roadable" aircraft. The Terrafugia team has completed the design, construction, and preliminary drive-testing of our proof-of-concept (POC) aircraft, and the next critical step in the vehicle development program is the commencement of the flight test program.

Terrafugia is implementing a two phase flight test program for the experimental evaluation of our Transition® roadable aircraft. The test program plan has been formed by our chief test pilot and flight test coordinator, Col. Philip C. Meteer (ret. USAF). Col. Meteer has attended the National Test Pilot School, and has consulted extensively with instructors at the NTPS as well as the engineers at Terrafugia in the development of Terrafugia's flight test program. The resulting two phase flight test program is summarized here:

Phase one of flight testing will evaluate basic vehicle stability and control during normal flight and in particular during takeoff and landing. Go-arounds will be practiced at altitude and basic control forces for normal maneuvers will be assessed. Phase one testing will be conducted out of either Griffiss or Plattsburgh. Once basic controllability and pilot familiarization is completed through phase one testing, phase two will begin.

Phase two of flight testing will expand the test envelop to include stalls and stall recovery, accelerated stalls, and possibly spin entry and recovery depending upon stall performance. Phase two will also be the test-bed for modifications to the vehicle and more substantial in-flight data acquisition to fully evaluate flight characteristics. Phase two testing will be primarily out of Orange (KORE), but occasional flights from KRME or KPBG will likely be desirable for various testing reasons.

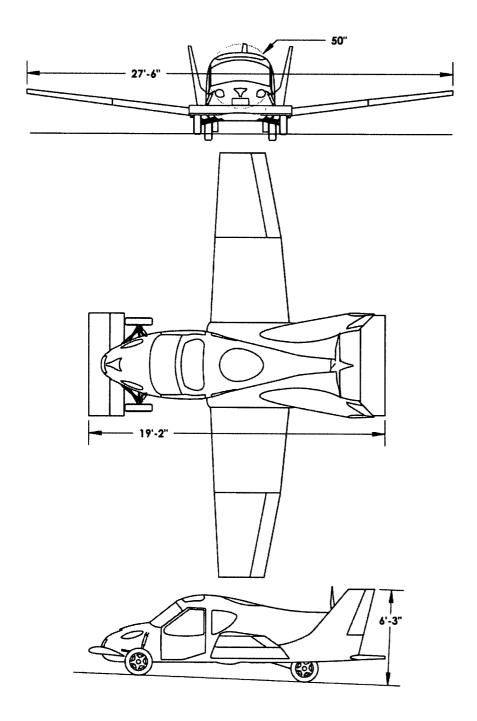
The following charts indicate the proposed areas of flight test operations at all three locations.

Please direct any questions regarding this program letter to:

Carl Dietrich
Terrafugia Inc.
5 Cranes Court
Woburn, MA 01801

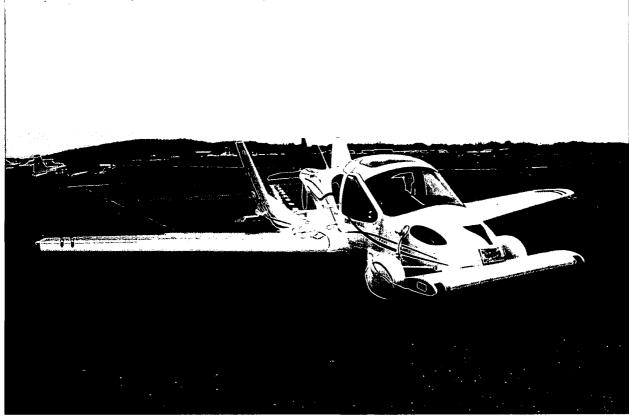
+1-781-491-0812

carl@terrafugia.com



3-view drawing of Terrafugia's Transition Roadable Aircraft. The datum plane is coincident with the nose of the fuselage (9" aft of the leading edge of the canard). The CG range is from 6' 3" to 6' 6" aft of datum. This location has been validated by vortex lattice modeling, wind-tunnel testing, and scale-model flight tests.





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